

Installation Instructions
IFPS14 (Full Install)
May 21, 2003

Installation Instructions for IFPS14

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PART 0: Prerequisite

Part 0 represents the portion of the IFPS14 install that can be done/verified prior to actually starting the install. Please read over this section and complete the items listed below. You should not continue with the IFPS14 install until all of these items have been satisfied.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag.

1. AWIPS Version Installed

a. All WFOs –

i. AWIPS OB1 or OB2 and IFPS13.x MUST be installed.

(1) To check AWIPS release, type the following command:

```
> cat /awips/Release_ID
```

If the result does not match at least OB1, please install OB1 before continuing with the IFPS14 install.

(2) To check IFPS release, type the following commands:

```
>dbaccess ifps_ccc
```

where ccc is the 3-letter site identification

```
>Select [Q]uery Language
```

```
>Select [N]ew
```

```
>Type SQL
```

```
SELECT * FROM rap_install_log;
```

```
>Select <esc>
```

```
>Select [R]un
```

```
>Select [E]xit, twice
```

```
>exit
```

If the result does not match at least IFPS13.0, please install IFPS13.0, before continuing with the IFPS14 install.

2. Backup Copies of Important IFPS Files

a. All WFOs –

i. See Attachment 1 for the list of data files, scripts, and database tables that are replaced or merged during the IFPS14 upgrade.

ii. Key files that MDL suggests should be backed up prior to starting the IFPS14 upgrade:

(1) Data files and Scripts

i. /awips/adapt/ifps/xdefaults/Igr_ccc

ii. /awips/adapt/ifps/localbin/ifps-ccc.env

iii. /awips/adapt/ifps/data/mask.00

iv. /awips/adapt/ifps/data/mask.12

v. /awips/adapt/ifps/data/template_fwm.ccc

(2) ifps_ccc Database Tables

i. None

PART 1: Pre-install Preparations

Part 1 represents the steps necessary to prepare the system for the IFPS14 install. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that the Part 1 and Part 2 will take approximately two hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS14 upgrade.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag.

1. Look for Addenda to the IFPS14 Install Instructions

a. All WFOs –

- i. *Before starting with the IFPS14 install, please review any updated Install Instructions and/or Lessons Learned at the following URL:***

<http://www.nws.noaa.govmdl/icwf/IFPSBuilds>

Once there, click on “14” in the IFPS14 row of the matrix.

The IFPS14 web page includes a number of other hypertext links including a link to the IFPS14 User’s Guide.

2. IFPS14 Install Space

- a.** The chart in Attachment 2 indicates the amount of space needed in each of the partitions for the specified host. If there is not enough space available, the install will stop in order to allow the IFPS-FP to free up space in the specified partition. The install can then be re-run. To save time during the installation, this chart may be used as a pre-install check of available space. All sizes are in kb.

PART 2: Install IFPS14

Part 2 represents the steps necessary to install IFPS14. Part 1 through Part 3 within the install instructions need to be completed on the same day. It is estimated that this part will take approximately two hours to complete. The time required for Part 3 depends on the amount of time it will take your site to verify the IFPS14 install.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag.

1. Notify the NCF

- a. All WFOs –
 - i. Before starting the IFPS14 installation, please open a trouble ticket with the NCF. The NCF will, in turn, alert MDL that you are about to begin your IFPS installation. Should you require any assistance with your installation, a trouble ticket will already be opened.
- b. RAP Sites (Only) -
 - i. **If you have any problems with your IFPS installation or have questions about anything related to the installation process, then please call the Customer Support Team (CST) for assistance. CST telephone contact information is available on the last page of this document.**
- c. Non-RAP WFOs -
 - i. **If you have any problems with your IFPS installation or have questions about anything related to the installation process during normal business hours, then please call the Site Support Team (SST) at (301) 713 1724 x 171.**
- d. All WFOs -
 - ii. If you encounter any operational problems with IFPS, after successfully installing, then, as usual, contact the NCF.

2. Ensure System is running

- a. All WFOs –
 - i. Log into a workstation as root, then rlogin to the ds
 1. `>rlogin ds1`
 - b. Use the following command to verify that Informix is up and running correctly.
`>onstat -g dri`
 1. If you get a response this means that the Informix database is running.

2. Using the output from the command above, verify that under the **Data Replication** heading, the type is primary and the state is on as indicated below.

**Informix dynamic server 7.31.UC2 – On-Line (Prim)–up 012319 –
168592 kbytes**

Data Replication:

<i>Type</i>	<i>state</i>	<i>paired serve</i>	<i>const dr ckpt</i>	<i>id/pg</i>
<u>primary</u>	<u>on</u>	<u>ONLINE_REP</u>	<u>126615/14</u>	<u>28</u>

DR interval 30

DR interval 30

DR interval 30

DR auto 0

DRLOST FOUND /opt/informix/etc/.dr.lostfound

NOTE: If (1) or (2) above are not true, you have a problem and need to start the Informix database before you proceed. Call the Site Support Team (SST) for assistance.

b. All WFOs –

- i. Verify that the DS and AS are not currently failed over. You will not be able to complete this install if either the DS or the AS is failed over.
- ii. Verify that the site is not in service backup mode, nor are the lx1 and lx2 machines in failover mode.

3. **Install IFPS14**

a. All WFOs –

- i. **IMPORTANT (Don't miss this step):** If someone at your WFO has not been contacted about updating the localConfig.py file for IFPS13, please contact the CST for assistance. It is extremely important that this configuration file be updated prior to the installation of IFPS14. If the syntax is not **exactly correct** within this file, **the IFPS14 install will fail.**
- ii. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.
- iii. Verify the site is not in service backup mode, nor are the lx1 and lx2 boxes in service failover mode.
- iv. Ensure the ifpServer and ifpServerWatcher processes are running. You can use this command to make this determination:
> ps -fu ifps

If either is not running perform these two commands, substituting your site id for the 'ccc':

```
> cd /awips/adapt/ifps/bin/linux
```

```
> start_LX_ifps_servers ccc
```

- v. **Save the forecast data.** During the install of IFPS14, the forecast grids will be lost. In order to prevent this data loss the grids must be manually saved off and then restored when the installation has finished. The installation script will attempt to perform this save/restore function as well, but it is likely to fail. If it should succeed, performing the same steps manually will do no harm.

1. Log into lx1 as user ifps.
2. > cd /awips/GFESuite/bin
3. Substitute your site id (in upper case) for 'CCC' and note that there are two (2) underscores following 'GRID':

```
> ./ifpnetCDF -o /awips/GFESuite/SaveFcstDB.cdf \
-h lx1 -r 98000000 -d CCC_GRID__Fcst_00000000_0000
```

4. This will produce a file named SaveFcstDB.cdf in your /awips/GFESuite directory.

5. Exit lx1.

- vi. Install the IFPS14.

1. Insert the CD labeled "IFPS14.0" into the CD drive on ds1
2. Log into a workstation as **root**, then rlogin into the ds
>rlogin ds1
3. Start two windows. One to run the commands and the other to stop the script files.
4. In the first window, mount the CD drive
For K class server:
>mount /dev/dsk/c3t2d0 /cdrom
For D class server:
>mount /dev/dsk/c1t2d0 /cdrom
5. In the first window, start the script to log install progress
>script -a /home/ncfuser/IFPS14.0install.out
6. >cd /cdrom
7. In the first window, run "installIFPS14". Remember this command needs to be executed as **root** on the **ds1**. This script needs to run to completion (i.e., the command line prompt returns). Do not <ctrl>C out of this script unless you are directed to do so by NCF or MDL personnel.
>./installIFPS14
 - i. There are a couple of error checks that may appear during the IFPS14 install. These error checks will stop the install

until the problem is resolved.

- a. The first check verifies that there is enough space to unload the ifps_ccc database. If there is not enough space, then the install will pause while this area is cleaned up. Once the directory has been cleaned, you will be able to select 'y' to continue with the install.
 - b. The second check verifies that no sessions are connected to the ifps_ccc and wwa_ccc databases. If this check determines that there is a session connected to this database, it will provide you with the necessary information to resolve this issue. Once the sessions have been removed, you will be able to continue with the install by selecting 'y'.
 - ii. At some point during the installation the following line will appear: "override protection 755 for /awips/adapt/ifps/localbin/ifps-ccc.env.orig (y/n)?" Type in a 'y', and the installation will continue.
8. When the command line prompt is returned, the install script has finished. At that time, bring up the second window and stop the script command.
- ```
>ps -ef | grep IFPS14.0install
>kill <process id>
```
- where process id is shown in the 'ps -ef' command
9. In the second window, review the IFPS14 install log
- ```
>cd /home/ncfuser  
  
>more IFPS14.0install.out
```
- Look for any errors in the log file. If you have a questions about anything related to the install process, call the Site Support Team (SST) for assistance. Also take a look at the Lessons Learned section of the IFPS14 web page at:

<http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds>

Once there, click on "14" in the IFPS14 row of the matrix to view more information about IFPS14.

When the install is completed, please call the NCF and close the trouble ticket you opened to begin this process.

10. Unmount & remove the IFPS14 CD

```
> cd
> umount /cdrom
```

11. **Restore the forecast data.**

- i. Log into **lx1** as user **ifps**. Ensure the ifpServer and ifpServerWatcher processes are running by typing.

```
> ps -fu ifps
```

If either process is not running perform these two commands, substituting your site id for the 'ccc':

```
> cd /awips/adapt/ifps/bin/linux
> start_LX_ifps_servers ccc
```

- ii.

```
> cd /awips/GFESuite/bin
```

Substitute your site's id (upper case) for the 'CCC' and note that there are two (2) underscores in the following command:

```
> ./iscMosaic -h lx1 -r 98000000 -d \
CCC_GRID__Fcst_00000000_0000 -z -n -f \
/awips/GFESuite/SaveFcstDB.cdf
```

- iii. Move the SaveFcstDB.cdf file to the backup directory:

```
> cd /awips/GFESuite
> mv SaveFcstDB.cdf /data/adapt/ifps/backup/
```

- iv. Log out of lx1.

PART 3: Post-Install Instructions for IFPS14

Part 3 represents the steps necessary to verify the IFPS14 install. These steps are not comprehensive but just enough to verify that the basic system functionality is up and running. This part of the install instructions includes a list of items that MDL/FSL recommend to complete immediately after the IFPS14 install. This list is meant to focus the IFPS Focal Point on particular pieces of the software that were changed during the IFPS14 install. Although MDL/FSL attempts to not overwrite the local site configuration of IFPS, sometimes it is not possible. This part of the install instructions should lead the IFPS Focal Point to verify that site configuration is not lost. This section will closely parallel the information listed in Part 0. If the site performed the necessary backups of these data, then the verification and any necessary updates should go smoothly at this time. The last part of this section includes a list of items that will need to be configured, if the site chooses to do so at a later time.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag.

1. Verify System Functionality

- a. All WFOs –
 - i. Verify that the IFPS servers started correctly
 - (1) On lx1 as ifps
 - i. Check for the IFPS Servers (ifpServer, ifpServerWatcher, sliderParameterServer, and sirssrv)


```
>ps -ef | grep ifps
```
 - ii. If any of the above processes are not listed, then start the server(s)


```
>cd /awips/adapt/ifps/bin/linux
>./start_LX_ifps_servers ccc
```

where ccc is the 3-letter site identification
 - ii. Verify that the IFPS cron files are running
 - (1) On ds1 as ifps
 - i. Check for the IFPS cron


```
>crontab -l
```
 - ii. If the cron is not listed, then start it


```
>cd /awips/adapt/ifps/crontab
>crontab ifps-ccc.crontab
```

where ccc is the 3-letter site identification
 - (2) On lx1 as ifps
 - i. Check for the IFPS cron


```
>crontab -l
```
 - ii. If the cron is not listed, then start it

- ```
>cd /awips/adapt/ifps/crontab
>crontab ifps_mosingest_crontab.sh
```
- (3) On lx2 as ifps
- i. Check for the IFPS cron

```
>crontab -l
```
  - ii. If the cron is not listed, then start it

```
>cd /awips/adapt/ifps/crontab
>crontab ifps_diskmirror.crontab
```

## 2. **New Functionality that could be Configured within IFPS**

### a. All WFOs –

- i. Please refer to Section #1 of the IFPS14.0 Release Notes for more details of new functionality added within IFPS14.0. The URL is:

<http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds>

Once there, click on “14” in the IFPS14 row of the matrix, then go to Release Notes and Section 1 (“New Functionality”)

## 3. **Export Configuration Data**

### a. All WFOs –

- i. After successfully **installing**, **testing**, and **configuring** IFPS14, it is important that you export your site’s configuration data to the NDFD central server. Having your site’s latest configuration data available on the NDFD central server will greatly facilitate service backup should your site require it. For more information related to exporting your site’s configuration data, please visit the following references in the IFPS14.0 Users Guide:

[http://www.nws.noaa.gov/mdl/icwf/user\\_guide\\_ifps14/func/svc\\_backup\\_func.htm#Initiating](http://www.nws.noaa.gov/mdl/icwf/user_guide_ifps14/func/svc_backup_func.htm#Initiating)

[http://www.nws.noaa.gov/mdl/icwf/user\\_guide\\_ifps14/tech/svc\\_backup\\_tech.htm#ConfigDataExp](http://www.nws.noaa.gov/mdl/icwf/user_guide_ifps14/tech/svc_backup_tech.htm#ConfigDataExp)

### **PART 4: Deinstall Instructions for IFPS14**

Part 4 represents the steps necessary to deinstall (if necessary) IFPS14. The deinstall is a radical step and should be considered only as a last resort to get the site back up and running with IFPS. As a result, any deinstall of IFPS14 should be carefully coordinated between the site, regional headquarters, Office of Science and Technology, MDL, FSL, and OCCWS.

**NOTE:** Any configuration completed since the IFPS14 install will be lost upon completing the deinstall. The system will be returned to the state just prior to the IFPS14 install. All forecast digital data will be lost and will need to be recreated.

If you are a RAP site, please follow the directions listed under the “RAP Sites (ONLY)” tag. If you are not a RAP site, please follow the instructions under these tags “Non-RAP WFOs”. All of the WFOs need to follow the directions under the “All WFOs” tag.

1. **Notify the NCF**
  - a. All WFOs –
    - i. Before starting the IFPS14 de-install, please open a trouble ticket with the NCF. This will alert MDL that you are about to begin your IFPS de-install. Should you require any assistance with the de-install, a trouble ticket will already be opened.
2. **Restore IFPS to the previous build (13.x)**
  - a. All WFOs –
    - i. Verify that IFPS and WWA are **NOT** running on any workstation in the office. This includes HP as well as Linux workstations.
    - ii. Verify that /awips/IFPS\_Release\_ID indicates that the current version of IFPS is 14.0. If it is not, stop. You cannot de-install IFPS14.0.
    - iii. Deinstall IFPS14.
      - (1) **Save the Forecast data.** During the deinstall of IFPS14, the forecast grids will be lost. In order to prevent this data loss the grids must be manually saved off and then restored when the installation has finished. The de-installation script will attempt to perform this save/restore function as well, but it is likely to fail. If it should succeed, performing these same steps manually will do no harm.
        - i. Log into **lx1** as user **ifps**. Check to see that the ifpsServer and ifpServerWatcher processes are running by typing this command:  
`> ps -fu ifps`

If either process is not running, enter these commands,

substituting your site id for 'ccc':

```
> cd /awips/adapt/ifps/bin/linux
> start_LX_ifps_servers ccc
```

If the processes are running proceed to step ii.

ii. > cd /awips/GFESuite/bin

iii. Substitute your site id (in upper case) for 'CCC' and note that there are two (2) underscores following 'GRID':

```
> ./ifpnetCDF -o /awips/GFESuite/SaveFcstDB.cdf \
-h lx1 -r 98000000 -d CCC_GRID__Fcst_00000000_0000
```

iv. This will produce a file named SaveFcstDB.cdf in your /awips/GFESuite directory. Verify the file is there, and then exit lx1.

- (2) If not already inserted, load the CD labeled "IFPS14.0" into the CD drive on ds1
- (3) Log into a workstation as root, then rlogin into the ds1  

```
>rlogin ds1
```
- (4) Start two windows. One to run the commands and the other to stop the script files.
- (5) In the first window, if not already mounted, mount the CD drive  
 For K class server:  

```
>mount /dev/dsk/c3t2d0 /cdrom
```

 For D class server:  

```
>mount /dev/dsk/c1t2d0 /cdrom
>cd /cdrom
```
- (6) In the first window, start the script to log install progress  

```
>script -a /home/ncfuser/IFPS14.0deinstall.out
```
- (7) In the first window, run the installIFPS14.0 script with a deinstall option (the script may take a second or two, before it sends information to the terminal screen)  

```
>./installIFPS14 -d deinstall
```

 The deinstallation will now start. Note that there will be several periods of 5 min or so when no output messages will be generated. This is normal – the script is still working.
- (8) When the first window returns to the command prompt, the deinstallation has finished. In the second window, stop install log using these commands:  

```
>ps -ef | grep IFPS14deinstall
>kill <process id>
```

 where process id is shown in the 'ps -ef' command
- (9) In the second window, review the deinstall IFPS14 log

```
>cd /home/ncfuser
>more IFPS14deinstall.out
```

Look for any errors in the log file. If you have questions about anything related to the de-install process, call the Site Support Team (SST) for assistance. When the de-install is completed, please call the NCF and close the trouble ticket you opened to begin this process.

(10) **Restore the forecast data.**

- i. Log into **lx1** as user **ifps**. Ensure the ifpServer and ifpServerWatcher processes are running by typing.  

```
> ps -fu ifps
```

If either process is not running perform these two commands, substituting your site id for the 'ccc':

```
> cd /awips/adapt/ifps/bin/linux
> start_LX_ifps_servers ccc
```

- ii. 

```
> cd /awips/GFESuite/bin
```

Substitute your site's id (upper case) for the 'CCC' and note that there are two (2) underscores in the following command:

```
> ./iscMosaic -h lx1 -r 98000000 -d \
CCC_GRID__Fcst_00000000_0000 -z -n -f \
/awips/GFESuite/SaveFcstDB.cdf
```

- iii. Move the SaveFcstDB.cdf file to the backup directory:  

```
> cd /awips/GFESuite
> mv SaveFcstDB.cdf /data/adapt/ifps/backup/
```

**Attachment 1: New/Merge/Replace File List for IFPS14.0**

The table below tracks changes in the IFPS data files and database tables associated with the transition from IFPS13.x to IFPS14.0

The following **key** is used in the table.

**Merge** Attempt to preserve edited changes to this file/database table while providing any new information needed for IFPS to run in the IFPS14.0 environment. The IFP focal point should **back these files up** and **confirm that no site changes were lost during the IFPS14.0.**

**Replace/Update** This file/database table must be completely replaced in order for IFPS to run in the IFPS14.0 environment. The IFP focal point should **back these files up** and **be prepared to merge his/her changes into the file once IFPS14.0 has been installed.**

**Delete** This file/database table was removed during the IFPS14.0 install.

**New** New files/database tables required for IFPS to run in the IFPS14.0 environment. There is no additional work required. The IFP focal point may have to customize these files after IFPS14.0 is installed in order for a particular application to work correctly. For IFPS14.0 details and links to IFPS14.0 Release Notes and the IFPS14.0 User's Guide, go to:

<http://www.nws.noaa.gov/mdl/icwf/IFPSBuilds>

Once there, click on "14" in the IFPS14 row of the matrix.

**If a particular file/database table is not mentioned in the report below, assume that no changes are occurring during the IFPS14.0 install.**

| <b><u>File/Database Table</u></b> | <b><u>Use Key Above</u></b> |
|-----------------------------------|-----------------------------|
| ~ifps/Xdefaults                   |                             |
| Igr_ccc                           | New                         |
| Master                            | New                         |
| Sliderccc                         | New                         |

| <b><u>File/Database Table</u></b> | <b><u>Use Key Above</u></b> |
|-----------------------------------|-----------------------------|
| ~ifps/crontab                     |                             |
| No Changes                        |                             |
| ~ifps/localbin                    |                             |
| ifps-ccc.env                      | Merge                       |
| ~ifps/data                        |                             |
| WWA_files.txt                     | New                         |
| climo                             | New                         |
| config_bm                         | New                         |
| fixit_init.cfg                    | New                         |
| fixit_main.cfg                    | New                         |
| fixit_marine.cfg                  | New                         |
| fixit_selector.cfg                | New                         |
| georemap_bm                       | New                         |
| ifps_avn.cfg                      | New                         |
| ifps_hpc.cfg                      | New                         |
| ifps_init.cfg                     | New                         |
| ifps_mrf.cfg                      | New                         |
| ifps_ngm.cfg                      | New                         |
| igr_bm                            | New                         |
| master_bm                         | New                         |
| slider                            | New                         |
| template_fwm.ccc                  | New                         |
| ifps_ccc database                 |                             |
| cat_element                       | Merge                       |
| const_descr.unl                   | Update                      |
| dfm_template.unl                  | Update                      |
| map_associations.unl              | Update                      |
| option_items.unl                  | Update                      |



**File/Database Table****Use Key Above**

wwa\_ccc database

No Changes

The following are some of the scripts in /awips/adapt/ifps/bin/hp and /awips/adapt/ifps/bin/linux that have changed with the IFPS14.0 install. If the IFP focal point has made any adjustments to these script within /awips/adapt/ifps/localbin, they will need to be **merged**.

- Under /awips/adapt/ifps/bin/hp:
  - capture\_off\_words
  - ccf\_trans
  - dump\_tdlfs
  - ifps-main.env
  - run\_dump\_tdlfs
  - run\_ifps
  - tsfp
  - tsfp\_alert
- Under /awips/adapt/ifps/bin/linux:
  - Icwf\_message
  - MOSInterp
  - add\_tables.tcl
  - avg\_dfms
  - bpfextract
  - capture\_off\_words
  - ccf\_trans
  - change\_cwa
  - chg\_cmd
  - choose\_host
  - clean\_svbkup.bat
  - clean\_svbkup.tcl
  - cleanup\_svbk
  - cleanup\_temp\_tables
  - config\_cat\_element
  - config\_cntrl\_const
  - config\_edit
  - config\_forecasters
  - config\_fwx\_prods

- config\_geo
- config\_ifps
- config\_progroup
- config\_proinfo
- config\_wildcard
- correct\_ifps\_permissions
- cpydfms
- createIFPSdatabase
- createIFPSdatabases
- createIFPSdatabasesYesterday
- createNewDatabase
- create\_firewx
- create\_marine
- create\_temp\_tables
- create\_tempfwx\_tables
- cwfes
- cwfes.bat
- cwfca.bat
- cwfca\_marine\_no\_working.bat
- detnwrchnges
- detupdchnges
- dumpcombos
- dumpdfms
- dumpgrids
- edit\_dfsm
- efpc
- eshef
- export\_Xdef\_for\_svcbkup
- export\_datadir\_for\_svcbkup
- export\_localbin\_for\_svcbkup
- frmt
- fwf
- fwm
- fwxcwfca.bat
- fwxtab
- georemap
- gform
- grid2shefb
- hanging\_app.env
- hanging\_app.tcl
- hanging\_app\_warn.tcl
- ics

- ics.bat
- ics\_fwz.bat
- ics\_marine.bat
- ics\_marine\_move.bat
- ics\_move.bat
- icwf\_msg
- ifpServerWatcher
- ifps\_config\_menu
- ifps\_master\_menu
- igr
- igr.bat
- import\_local\_bin\_for\_svcbackup
- init\_cwf\_stn\_dfms\_frm\_grd.bat
- init\_cwf\_zone\_dfms\_frm\_grd.bat
- init\_firewx\_stn\_dfms\_frm\_grd.bat
- init\_firewx\_zone\_dfms\_frm\_grd.bat
- init\_glf\_stn\_dfms\_frm\_grd.bat
- init\_glf\_zone\_dfms\_frm\_grd.bat
- init\_marine\_files\_and\_db
- init\_nsh\_stn\_dfms\_frm\_grd.bat
- init\_nsh\_zone\_dfms\_frm\_grd.bat
- init\_off\_stn\_dfms\_frm\_grd.bat
- init\_off\_zone\_dfms\_frm\_grd.bat
- init\_public\_stn\_dfms\_frm\_grd.bat
- init\_public\_zone\_dfms\_frm\_grd.bat
- initmarine
- iur
- kill\_ww.sh
- killer
- killit
- lexwx
- list\_cwa\_changes
- list\_cwa\_changes\_zone
- lx1.finishes.primary
- lx2\_primary.sh
- lx\_failover
- make\_default\_combos
- make\_lx1\_primary.sh
- make\_lx2\_primary.sh
- make\_lx2\_secondary.sh
- maketime
- marine.bat

- marine\_cwfca.bat
- mexwx
- mfp
- mk\_brt
- mk\_new\_tables
- mk\_new\_tables.bat
- modelimo
- mvf
- new\_table.sql
- phrstrat
- prepare\_grib2
- process\_export\_svc\_backup\_data
- process\_import\_svc\_backup\_data
- prod\_hdr
- qc
- rcmd\_remap
- rcmd\_remap.bat
- rd\_icwf\_site
- remove\_synopsis\_zone\_code.bat
- restore\_synopsis\_zone\_code.bat
- retrieve\_svc\_backup\_data
- rmv\_old\_tables
- run\_bpfextract
- run\_gform
- run\_ifps\_lx
- run\_lexwx
- saf
- selectMarineProduct.tcl
- select\_wfos
- setup\_tsfp\_for\_svcbkup
- sexwx
- show\_cwa\_changes
- sirssrv
- slider
- sliderParameterSrv
- start\_ifpsSvrWtchr
- start\_sliderParm\_server
- stn\_ingest\_controller.sh
- streamsaf.bat
- tpinj
- tsfp
- tsfp\_alert

- unld\_to\_zns
- unload\_grid\_config
- upd\_dfms\_frm\_grd.bat
- upd\_marine\_dfms\_frm\_grd.bat
- update\_cwa\_info
- update\_dbdata
- update\_gdpt
- update\_inherit
- wafd
- wafp
- wccf
- wcwf.bat
- wglf.bat
- wnsh.bat
- woff.bat
- wwa\_ifps\_backup.bat
- wwainj
- wwarcmd
- zfp

**Attachment 2: IFPS14.0 Install Space**

**(NOTE:** If you do not have sufficient install space in any of the partitions listed below, please contact the Site Support Team (SST) at 301-713-9362x325 for assistance in identifying files that may be safely deleted.)

|                     | <b>Host</b>   |         |         |
|---------------------|---------------|---------|---------|
| <b>Partition</b>    | ds1           | lx1     | lx2     |
| <b>/awips/adapt</b> | <b>300000</b> | -       | -       |
| /data/adapt         | 1300000       | -       | -       |
| /data/local         | 1300000       | -       | -       |
| /tmp                | 40000         | -       | -       |
| /awips/GFESuite     | -             | 1500000 | 1500000 |

The size can be checked on the HP host (ds1) with the following command:

bdf

Example:

ds1-nmtw{awipsusr}1: **bdf**

| Filesystem      | kbytes  | used   | avail        | %used      | Mounted on  |
|-----------------|---------|--------|--------------|------------|-------------|
| /dev/vg00/lvol3 | 102400  | 70225  | 30183        | 70%        | /           |
| /dev/vg00/lvol1 | 47829   | 15276  | 27770        | 35%        | /stand      |
| /dev/vg00/lvol7 | 212992  | 171655 | 38831        | 82%        | /var        |
| /dev/vg00/lvol6 | 512000  | 400254 | 104975       | 79%        | /usr        |
| /dev/vg01/lvol3 | 151552  | 112443 | 36879        | 75%        | /usr/local  |
| /dev/vg01/lvol2 | 1179648 | 922094 | 241986       | 79%        | /opt        |
| /dev/vg01/lvol4 | 204800  | 63607  | 132419       | 32%        | /awips/ops  |
| /dev/vg01/lvol5 | 563200  | 385420 | 166837       | 70%        | /awips/fxa  |
| /dev/vg00/lvol5 | 99669   | 52325  | <b>37377</b> | <b>58%</b> | <b>/tmp</b> |

|                  |         |         |                |            |                       |
|------------------|---------|---------|----------------|------------|-----------------------|
| /dev/vg02/lvol1  | 307200  | 2031    | 286935         | 1%         | /awips/dev            |
| /dev/vg02/lvol2  | 102400  | 53498   | 45852          | 54%        | /awips/hprt           |
| /dev/vg02/lvol3  | 411648  | 129243  | 273898         | 32%        | /awips/hydroapps      |
| /dev/vg02/lvol4  | 890880  | 508843  | <b>358486</b>  | <b>59%</b> | <b>/awips/adapt</b>   |
| /dev/vg02/lvol5  | 5427200 | 3834490 | 1511808        | 72%        | /data/fxa             |
| /dev/vg02/lvol6  | 824320  | 340664  | 455677         | 43%        | /data/logs            |
| /dev/vg02/lvol7  | 307200  | 19673   | 273893         | 7%         | /data/x400            |
| /dev/vg02/lvol8  | 471040  | 261638  | 197742         | 57%        | /home                 |
| /dev/vg02/lvol9  | 307200  | 108867  | 186001         | 37%        | /omni_shared          |
| /dev/vg02/lvol10 | 286720  | 216130  | 66196          | 77%        | /opt/HP-RT            |
| /dev/vg02/lvol11 | 409600  | 1334    | 382885         | 0%         | /data/archive_cache   |
| /dev/vg02/lvol12 | 614400  | 1798    | 574380         | 0%         | /data/archive_restore |
| /dev/vg03/lvol1  | 9216000 | 2293134 | <b>6491159</b> | <b>26%</b> | <b>/data/local</b>    |
| /dev/vg02/lvol14 | 1228800 | 748566  | 455960         | 62%        | /data/fxa_local       |
| /dev/vg03/lvol2  | 2560000 | 1105712 | <b>1363577</b> | <b>45%</b> | <b>/data/adapt</b>    |

In the above example, the **/tmp** partition has less than 40000 kb available.

-or-

bdf *partition*

Example:

ds1-nmtw{awipsusr}2: bdf /awips/adapt

| Filesystem      | kbytes | used   | avail         | %used      | Mounted on          |
|-----------------|--------|--------|---------------|------------|---------------------|
| /dev/vg02/lvol4 | 890880 | 508843 | <b>358486</b> | <b>59%</b> | <b>/awips/adapt</b> |

The size can be checked on the Linux hosts (lx1 and lx2) with the following command:

df

Example:

lx1-nmtw{awipsusr}1: df

| Filesystem              | 1k-blocks | Used    | Available      | Use%       | Mounted on             |
|-------------------------|-----------|---------|----------------|------------|------------------------|
| /dev/sda7               | 513880    | 118196  | 374804         | 24%        | /                      |
| /dev/sda2               | 23333     | 13133   | 8996           | 60%        | /boot                  |
| /dev/sda5               | 5138948   | 3005224 | 1924884        | 61%        | /usr                   |
| /dev/sda1               | 2119036   | 2412    | 2030520        | 1%         | /local                 |
| /dev/sda10              | 3075029   | 379827  | 2536161        | 14%        | /awips/fxa             |
| /dev/sda11              | 5050844   | 937481  | <b>3851907</b> | <b>20%</b> | <b>/awips/GFESuite</b> |
| /dev/sda12              | 11931137  | 586694  | 10848679       | 6%         | /data                  |
| /dev/sda8               | 256592    | 132608  | 110732         | 55%        | /var                   |
| /dev/sda9               | 256592    | 463     | 242877         | 1%         | /tmp                   |
| ds-nmtw:/awips/adapt    | 890880    | 508840  | 358488         | 59%        | /awips/adapt           |
| ds-nmtw:/home           | 471040    | 261392  | 197968         | 57%        | /home                  |
| ds-nmtw:/data/fxa       | 5427200   | 3835216 | 1511120        | 72%        | /data/fxa              |
| ds-nmtw:/data/fxa_local | 1228800   | 752960  | 451808         | 63%        | /data/fxa_local        |

|                          |         |         |                |            |                        |
|--------------------------|---------|---------|----------------|------------|------------------------|
| ds-nmtw:/data/local      | 9216000 | 2293128 | 6491160        | 27%        | /data/local            |
| ds-nmtw:/data/adapt      | 2560000 | 1105712 | 1363584        | 45%        | /data/adapt            |
| ds-nmtw:/awips/hydroapps | 411648  | 129440  | 273696         | 33%        | /awips/hydroapps       |
| <br>-or-                 |         |         |                |            |                        |
| df <i>partition</i>      |         |         |                |            |                        |
| Example:                 |         |         |                |            |                        |
| df /awips/GFESuite       |         |         |                |            |                        |
| /dev/sda11               | 5050844 | 937481  | <b>3851907</b> | <b>20%</b> | <b>/awips/GFESuite</b> |



**Attachment 3: Sample IFPS Install Log File**

A sample **IFPS14.0 Installation Log File** is available at the following URL:

- [http://www.nws.noaa.gov/mdl/icwf/IFPS14/IFPS14\\_sample\\_log.txt](http://www.nws.noaa.gov/mdl/icwf/IFPS14/IFPS14_sample_log.txt)

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